

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P959767

Luminaire Tested: **NAV-SB1B-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-727-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5306.4 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

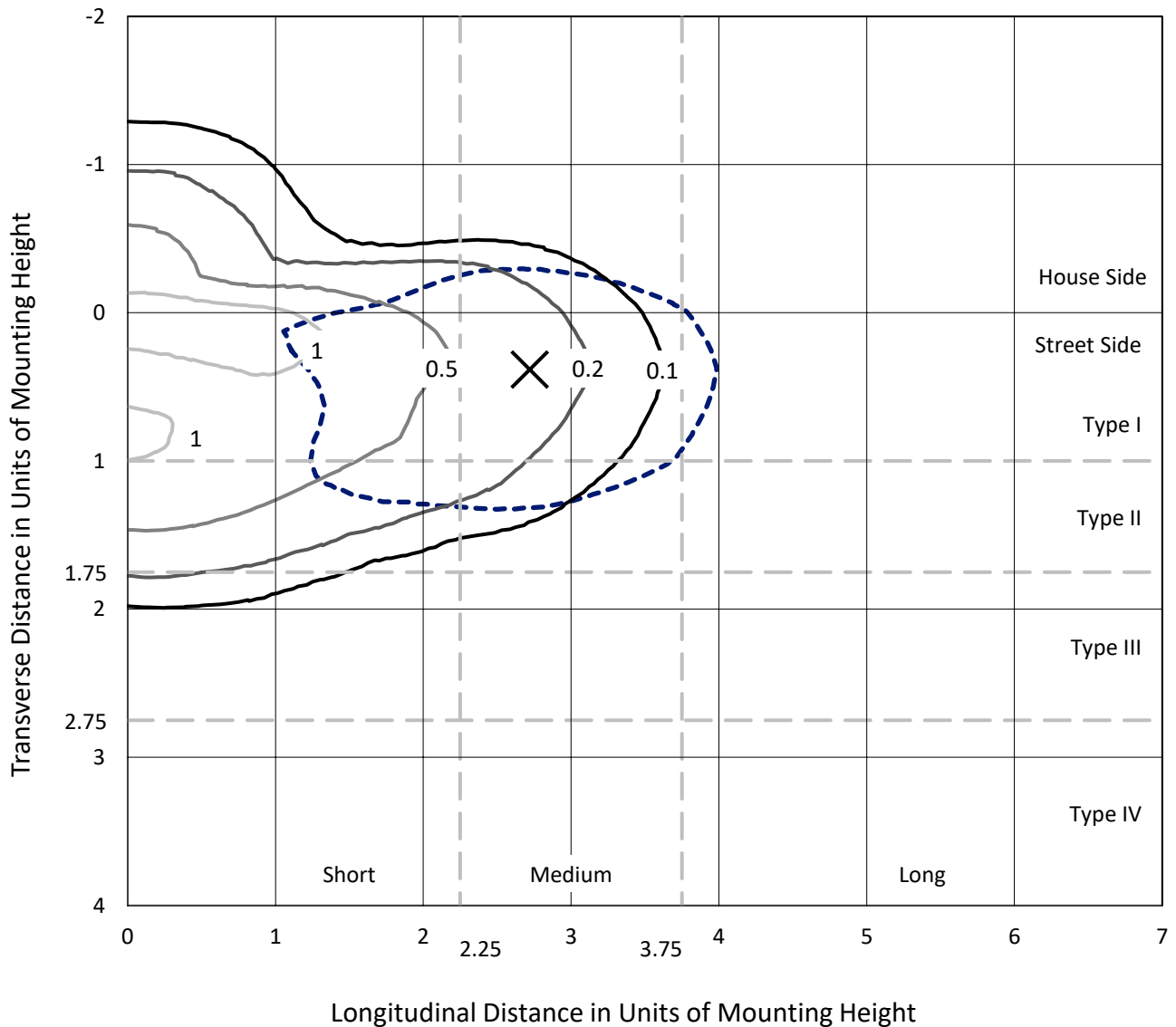
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

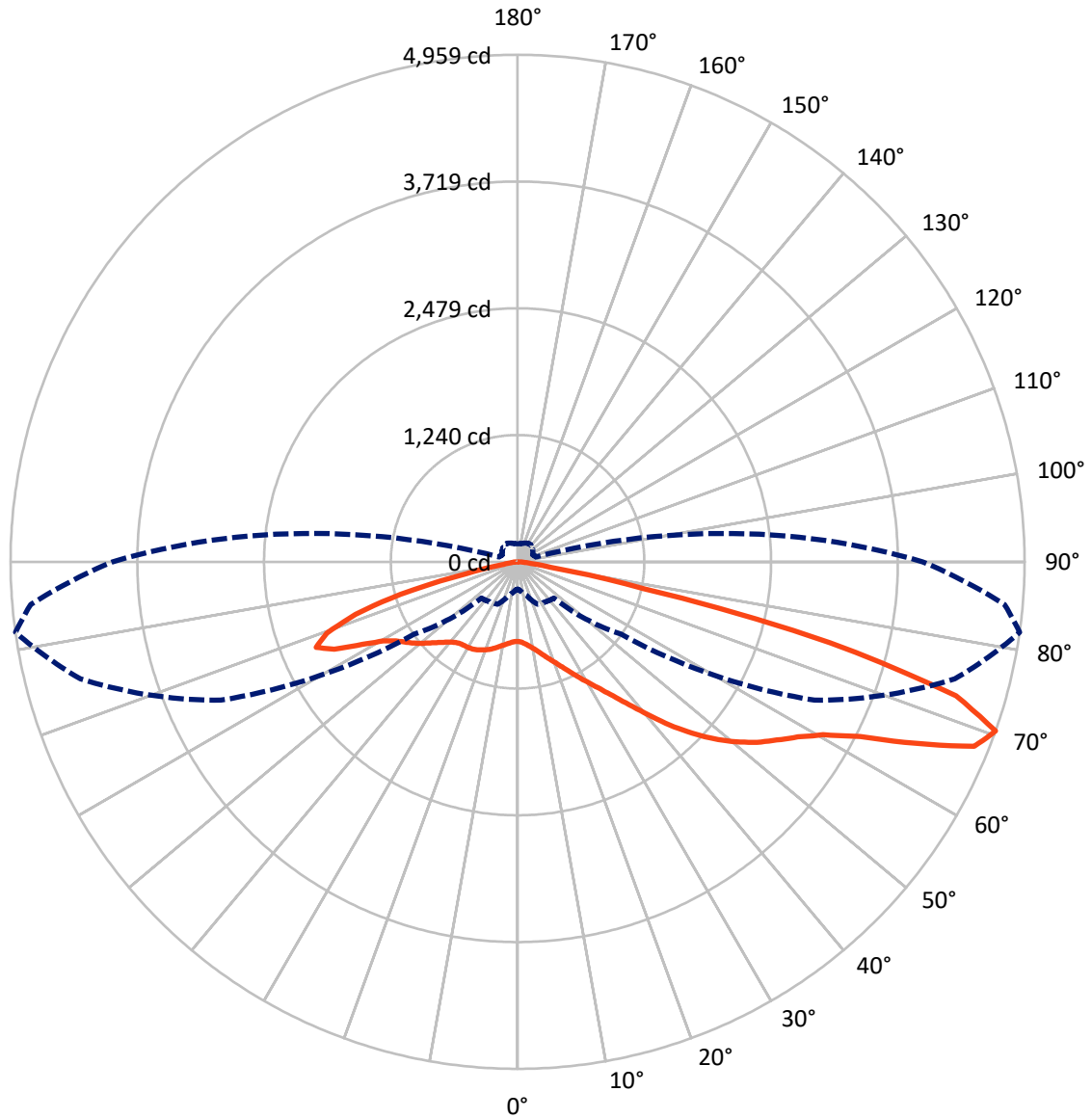
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1308.2	0.0	1308.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	3998.3	0.0	3998.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	5306.4	0.0	5306.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.4
10°-20°	211.0	4.0
20°-30°	353.1	6.7
30°-40°	551.6	10.4
40°-50°	878.4	16.6
50°-60°	1222.4	23.0
60°-70°	1278.7	24.1
70°-80°	668.3	12.6
80°-90°	69.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5306.4	100.0
0°-180°	5306.4	100.0

Coefficient of Utilization

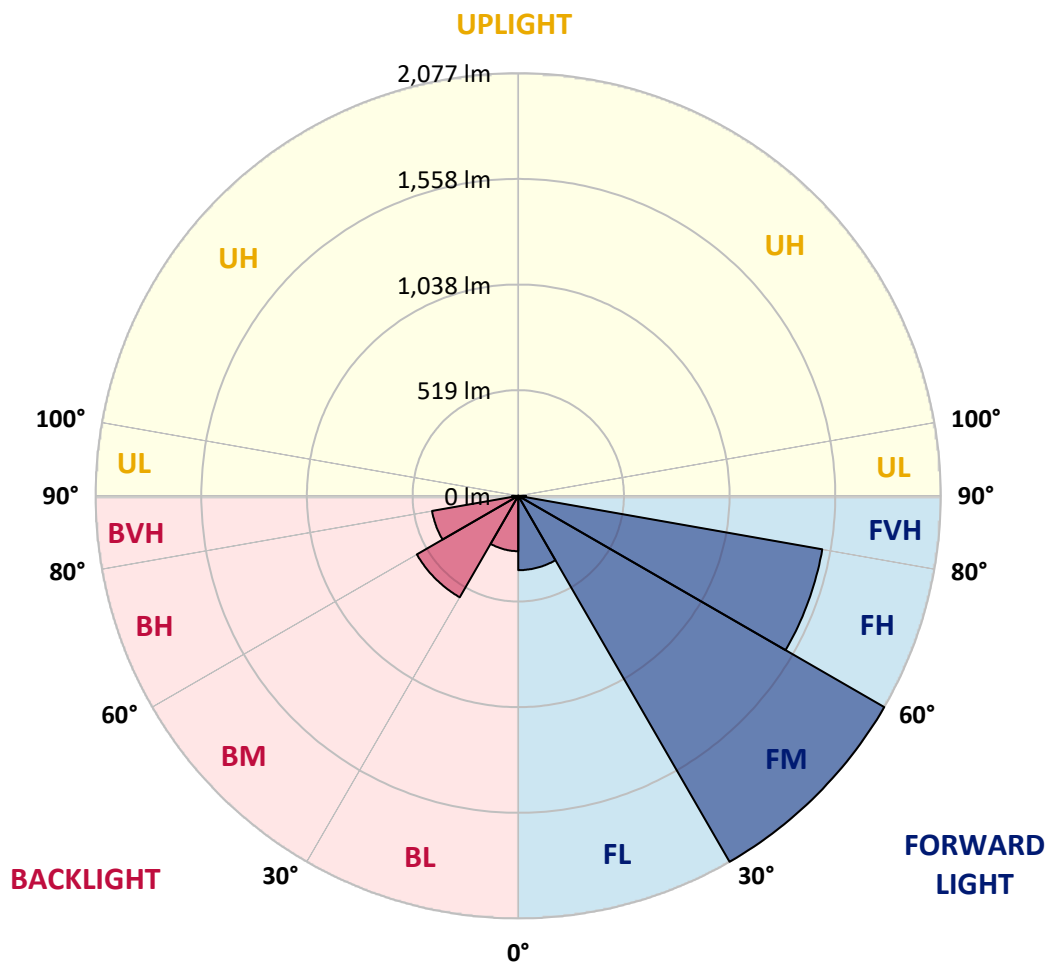


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.4	6.9			
FM (30°-60°)	2076.9	39.1			
FH (60°-80°)	1517.1	28.6			G1/1800
FVH (80°-90°)	38.8	0.7			G1/100
BL (0°-30°)	272.1	5.1	B1/500		
BM (30°-60°)	575.5	10.8	B1/1000		
BH (60°-80°)	429.9	8.1	B1/500		G1/500
BVH (80°-90°)	30.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0
2.5°	796.5	801.0	799.7	798.3	798.3	796.3	796.0	793.1	790.9	787.3	786.5
5°	806.7	811.5	811.0	812.1	815.7	816.5	817.4	815.7	811.2	806.7	804.7
7.5°	797.7	803.1	804.7	811.5	822.8	832.9	840.5	843.6	839.4	832.9	829.8
10°	767.3	773.2	779.1	795.2	815.2	839.1	859.4	871.5	870.6	864.4	859.1
12.5°	705.6	711.9	724.5	755.7	792.3	834.6	872.3	897.7	906.4	901.9	892.6
15°	656.3	661.7	671.3	703.4	750.9	815.2	877.1	926.4	948.6	946.1	934.8
17.5°	655.0	657.2	663.1	678.3	714.9	784.7	872.1	954.6	997.0	996.8	982.7
20°	679.7	680.6	684.0	687.1	707.9	761.7	859.1	978.0	1051.4	1051.4	1036.2
22.5°	714.1	713.5	716.9	714.1	724.2	759.7	851.0	998.5	1111.9	1116.4	1097.3
25°	765.6	762.8	762.0	755.4	757.5	778.0	860.0	1021.8	1183.8	1193.0	1169.1
27.5°	834.4	829.8	826.7	811.8	806.7	815.7	887.5	1050.0	1263.7	1279.7	1249.4
30°	923.8	915.6	911.1	885.3	866.9	868.4	929.2	1087.4	1347.4	1373.2	1334.7
32.5°	1046.0	1033.4	1021.3	978.8	945.3	934.3	983.0	1139.3	1438.0	1479.4	1429.9
35°	1182.8	1172.8	1159.8	1094.2	1042.6	1017.3	1055.6	1211.7	1544.2	1609.8	1545.3
37.5°	1314.7	1306.0	1312.1	1223.7	1157.2	1120.4	1150.8	1308.7	1675.1	1771.9	1690.0
40°	1451.0	1444.2	1445.0	1360.6	1283.1	1241.8	1266.3	1430.7	1825.1	1964.8	1864.1
42.5°	1599.1	1594.0	1577.1	1502.2	1415.2	1376.6	1399.1	1571.4	1986.2	2184.5	2054.9
45°	1764.9	1761.8	1746.1	1660.2	1560.5	1517.1	1547.5	1726.9	2148.1	2391.1	2246.7
47.5°	1908.2	1910.8	1908.8	1836.4	1733.1	1669.4	1705.8	1889.1	2298.8	2585.5	2430.6
50°	1977.2	1990.4	2009.9	1987.4	1923.1	1858.4	1865.4	2045.6	2442.4	2767.6	2606.8
52.5°	1941.1	1966.3	2019.1	2055.2	2080.0	2066.5	2047.6	2201.1	2577.6	2932.0	2773.5
55°	1806.9	1842.0	1929.9	2016.9	2143.4	2241.6	2266.4	2373.4	2709.3	3076.7	2931.2
57.5°	1562.2	1619.3	1698.2	1874.1	2087.0	2326.3	2521.5	2612.4	2849.0	3231.3	3096.2
60°	1142.7	1219.2	1317.2	1579.1	1889.9	2281.0	2738.6	2979.6	3047.4	3431.5	3311.1
62.5°	731.2	778.6	868.7	1115.3	1472.6	2048.8	2805.0	3438.6	3383.9	3759.9	3633.1
65°	500.6	531.1	613.6	752.0	952.0	1525.0	2627.1	3782.7	3918.4	4280.2	4183.9
67.5°	363.8	386.8	457.3	578.6	620.3	902.4	2038.6	3766.9	4437.8	4816.3	4666.5
70°	265.3	281.6	340.7	457.3	477.2	502.0	1235.0	3202.1	4426.7	4958.7	4779.5
72.5°	196.5	207.8	247.5	354.8	386.3	339.0	611.3	2327.2	3803.8	4485.2	4341.3
75°	142.2	150.7	179.9	271.4	309.1	258.2	304.9	1360.0	2653.3	3155.1	3180.4
77.5°	108.6	115.2	134.3	198.7	247.5	193.7	189.2	625.7	1258.1	1264.2	1335.3
80°	87.3	91.5	101.9	139.9	189.8	145.0	123.3	252.6	397.6	336.5	353.1
82.5°	64.2	71.2	86.2	98.3	135.7	99.9	75.1	127.5	151.2	130.1	131.2
85°	36.6	41.4	52.1	70.4	86.7	61.1	43.0	56.6	70.4	57.7	51.6
87.5°	12.9	16.9	18.3	27.6	37.7	25.3	16.6	16.3	23.1	17.2	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0	778.0
2.5°	783.6	782.2	776.5	769.0	761.1	753.5	750.9	745.6	742.0	739.9	742.2
5°	799.4	794.9	781.7	764.8	747.0	727.9	714.3	701.9	693.0	684.5	687.9
7.5°	821.9	814.1	791.2	761.7	730.1	698.3	674.7	656.6	644.5	636.6	638.4
10°	848.1	836.0	801.0	756.9	708.2	662.6	634.7	619.2	611.6	607.3	608.4
12.5°	878.2	861.1	811.2	745.9	674.7	622.6	603.4	598.9	599.2	599.4	600.0
15°	915.4	891.4	819.4	721.9	631.0	591.8	588.5	595.8	603.4	607.1	606.8
17.5°	957.4	923.5	820.8	682.5	588.2	572.2	582.8	598.6	610.2	615.2	616.3
20°	1002.4	956.2	810.7	626.8	553.0	556.1	575.2	595.5	608.2	614.7	616.3
22.5°	1053.9	991.2	786.5	568.3	524.3	538.6	561.2	580.9	594.1	600.5	602.3
25°	1112.7	1030.2	748.5	519.0	499.5	519.0	541.5	557.8	568.5	574.4	576.0
27.5°	1178.1	1071.1	697.7	479.8	477.9	498.7	517.2	529.9	535.6	540.1	541.7
30°	1243.7	1108.2	636.3	450.3	459.0	478.7	491.9	497.5	499.3	500.1	502.0
32.5°	1314.7	1140.4	571.8	425.8	441.0	459.2	467.1	469.7	461.8	456.4	458.1
35°	1400.6	1174.8	508.8	406.3	423.2	439.0	441.5	439.2	430.0	419.0	419.5
37.5°	1506.7	1217.5	458.4	392.5	406.6	417.0	413.9	413.4	414.2	401.3	402.1
40°	1636.8	1273.3	421.5	381.8	393.1	395.3	386.6	391.3	395.6	375.9	376.5
42.5°	1781.2	1340.6	398.1	374.5	381.8	376.5	363.0	368.3	367.8	341.8	341.5
45°	1928.5	1413.8	390.0	369.1	371.4	360.7	345.7	347.2	335.4	312.0	312.8
47.5°	2074.9	1492.3	395.0	364.6	358.4	346.3	334.8	328.6	311.2	293.7	293.7
50°	2218.5	1574.8	413.6	355.7	340.7	333.6	325.2	314.3	295.6	280.7	279.6
52.5°	2351.7	1657.9	434.5	340.7	318.5	322.7	317.3	304.6	286.4	271.1	271.4
55°	2477.8	1741.0	442.6	320.1	297.7	313.1	310.1	286.7	264.7	252.3	251.1
57.5°	2615.3	1840.9	433.6	294.0	280.7	302.2	290.3	264.3	251.7	242.4	241.6
60°	2805.6	1997.7	414.2	261.6	264.7	285.8	265.5	254.8	241.0	230.6	230.0
62.5°	3121.8	2290.4	382.9	229.5	245.8	261.6	253.7	243.0	228.9	218.7	218.7
65°	3589.2	2696.9	324.1	204.4	224.7	237.9	241.0	230.3	215.7	205.0	205.5
67.5°	3983.5	2952.0	245.3	183.6	203.1	218.7	227.6	217.1	201.6	191.2	191.5
70°	3961.7	2766.8	187.3	163.1	183.9	199.9	211.2	203.1	186.4	176.5	177.4
72.5°	3518.8	2314.6	151.5	142.2	164.4	180.2	193.7	187.6	170.7	161.0	161.0
75°	2585.2	1643.0	121.1	121.1	140.2	159.7	174.6	170.7	155.2	148.4	146.4
77.5°	1089.7	689.3	94.9	100.6	116.5	137.1	155.7	157.1	143.6	152.0	138.0
80°	289.8	190.0	72.4	79.1	91.5	113.2	135.4	134.9	120.2	112.3	104.4
82.5°	110.4	74.9	51.6	55.8	66.2	86.7	107.3	110.7	96.0	83.0	83.0
85°	42.5	32.1	31.8	33.5	38.5	57.4	81.1	83.9	72.4	61.4	63.3
87.5°	11.0	9.5	11.8	11.3	17.7	30.6	46.4	48.2	44.2	25.6	36.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)